Ile Gly Arg Lys Lys Thr Ser

545

SEQ. ID No. 14

LENGTH: 826

TYPE: amino acid

STRANDEDNESS: single

Ala Asn Gly Gln Thr Pro Ile Gln Arg Thr Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr Asp Tyr Lys Ile Tyr Leu Tyr Thr Leu Asn Asp Asn Ala Arg Ser Ser Pro Val Val Ile Asp Ala Ser Thr Ala Ile Asp Ala Pro Ser Asn Leu Arg Phe Leu Ala Thr Thr Pro Asn Ser Leu Leu Val Ser Trp Gln Pro Pro Arg Ala Arg Ile Thr Gly Tyr Ile Ile Lys Tyr Glu Lys Pro Gly Ser Pro Pro Arg Glu Val Val Pro Arg Pro Arg Pro Gly Val Thr Glu Ala Thr Ile Thr Gly Leu Glu Pro Gly Thr Glu Tyr Thr Ile Tyr Val Ile Ala Leu Lys Asn Asn Gln Lys Ser Glu Pro Leu

TOPOLOGY:

MOLECULAR TYPE:

linear

peptide

Asn Gly Arg Glu Glu Ser Pro Leu Leu Ile Gly Gln Gln Ser Thr

Val Ala Thr Lys Tyr Glu Val Ser Val Tyr Ala Leu Lys Asp Thr

				350					355					360
Leu	Thr	Ser	Arg	Pro	Ala	Gln	Gly	Val	Val	Thr	Thr	Leu	Glu	Asr
				365					370					375
Val	Ser	Pro	Pro	Arg	Arg	Ala	Arg	Val	Thr	Asp	Ala	Thr	Glu	Thr
				380					385					390
Thr	Ile	Thr	Ile	Ser	Trp	Arg	Thr	Lys	Thr	Glu	Thr	Ile	Thr	Gly
				395					400					405
Phe	Gln	Val	Asp	Ala	Val	Pro	Ala	Asn	Gly	Gln	Thr	Pro	Ile	Glr
				410					415					420
Arg	Thr	Ile	Lys	Pro	Asp	Val	Arg	Ser	Tyr	Thr	Ile	Thr	Gly	Lev
				425					430					435
Gln	Pro	Gly	Thr	Asp	Tyr	Lys	Ile	Tyr	Leu	Tyr	Thr	Leu	Asn	Asp
				440					445					450
Asn	Ala	Arg	Ser	Ser	Pro	Val	Val	Ile	Asp	Ala	Ser	Thr	Ala	Ile
				4 55					460					465
Asp	Ala	Pro	Ser	Asn	Leu	Arg	Phe	Leu	Ala	Thr	Thr	Pro	Asn	Ser
				470					475					480
Leu	Leu	Val	Ser	Trp	Gln	Pro	Pro	Arg	Ala	Arg	Ile	Thr	Gly	Tyr
				485					490					495
Ile	Ile	Lys	Tyr	Glu	Lys	Pro	Gly	Ser	Pro	Pro	Arg	Glu	Val	Val
				500					505					510
Pro	Arg	Pro	Arg	Pro	Gly	Val	Thr	Glu	Ala	Thr	Ile	Thr	Gly	Leu
				515					520					525
Glu	Pro	Gly	Thr	Glu	Tyr	Thr	Ile	Tyr	Val	Ile	Ala	Leu	Lys	Asn
				530					535					540

The same was a second of the same and the same as the same of the

20

5

			725					730					735
Ala Ile	Asp	Ala	Pro	Ser	Asn	Leu	Arg	Phe	Leu	Ala	Thr	Thr	Pro
			740					745					750
Asn Ser	Leu	Leu	Val	Ser	Trp	Gln	Pro	Pro	Arg	Ala	Arg	Ile	Thr
			755					760					765
Gly Tyr	Ile	Ile	Lys	Tyr	Glu	Lys	Pro	Gly	Ser	Pro	Pro	Arg	Glu
			770					775					780
Val Val	Pro	Arg	Pro	Arg	Pro	Gly	Val	Thr	Glu	Ala	Thr	Ile	Thr
			785					790					795
Gly Leu	Glu	Pro	Gly	Thr	Glu	Tyr	Thr	Ile	Tyr	Val	Ile	Ala	Leu
			800					805					810
Lys Asn	Asn	Gln	Lys	Ser	Glu	Pro	Leu	Ile	Gly	Arg	Lys	Lys	Thr
			815					820					825

SEQ. ID No. 15

LENGTH: 38

Ser

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULAR TYPE: other nucleic acid (synthetic DNA)

SEQUENCE:

AAACCATGGC AGCTAGCGCT ATTCCTGCAC CAACTGAC

38

SEQ. ID No. 16

5

LENGTH: 36

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULAR TYPE: other nucleic acid (synthetic DNA)

SEQUENCE:

AAAGGATCCC TAACTAGTCT TTTTCCTTCC AATCAG

36

SEQ. ID No. 17

LENGTH: 1644

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear

MOLECULAR TYPE: other nucleic acid (DNA encoding an

artificial polypeptide)

SEQUENCE:

ATGGCAGCTA GCGCTATTCC TGCACCAACT GACCTGAAGT TCACTCAGGT CACACCCACA 60 AGCCTGAGCG CCCAGTGGAC ACCACCCAAT GTTCAGCTCA CTGGATATCG AGTGCGGGTG 120 ACCCCCAAGG AGAAGACCGG ACCAATGAAA GAAATCAACC TTGCTCCTGA CAGCTCATCC 180 GTGGTTGTAT CAGGACTTAT GGTGGCCACC AAATATGAAG TGAGTGTCTA TGCTCTTAAG 240 GACACTTTGA CAAGCAGACC AGCTCAGGGT GTTGTCACCA CTCTGGAGAA TGTCAGCCCA 300 CCAAGAAGGG CTCGTGTGAC AGATGCTACT GAGACCACCA TCACCATTAG CTGGAGAACC 360 420 AAGACTGAGA CGATCACTGG CTTCCAAGTT GATGCCGTTC CAGCCAATGG CCAGACTCCA ATCCAGAGAA CCATCAAGCC AGATGTCAGA AGCTACACCA TCACAGGTTT ACAACCAGGC 480 ACTGACTACA AGATCTACCT GTACACCTTG AATGACAATG CTCGGAGCTC CCCTGTGGTC 540

5

ATCGACGCCT	CCACTGCCAT	TGATGCACCA	TCCAACCTGC	GTTTCCTGGC	CACCACACCC	600
AATTCCTTGC	TGGTATCATG	GCAGCCGCCA	CGTGCCAGGA	TTACCGGCTA	CATCATCAAG	660
TATGAGAAGC	CTGGGTCTCC	TCCCAGAGAA	GTGGTCCCTC	GGCCCGCCC	TGGTGTCACA	720
GAGGCTACTA	TTACTGGCCT	GGAACCGGGA	ACCGAATATA	CAATTTATGT	CATTGCCCTG	780
AAGAATAATC	AGAAGAGCGA	GCCCTGATT	GGAAGGAAAA	AGACTAGCGC	TATTCCTGCA	840
CCAACTGACC	TGAAGTTCAC	TCAGGTCACA	CCCACAAGCC	TGAGCGCCCA	GTGGACACCA	900
CCCAATGTTC	AGCTCACTGG	ATATCGAGTG	CGGGTGACCC	CCAAGGAGAA	GACCGGACCA	960
ATGAAAGAAA	TCAACCTTGC	TCCTGACAGC	TCATCCGTGG	TTGTATCAGG	ACTTATGGTG	1020
GCCACCAAAT	ATGAAGTGAG	TGTCTATGCT	CTTAAGGACA	CTTTGACAAG	CAGACCAGCT	1080
CAGGGTGTTG	TCACCACTCT	GGAGAATGTC	AGCCCACCAA	GAAGGGCTCG	TGTGACAGAT	1140
GCTACTGAGA	CCACCATCAC	CATTAGCTGG	AGAACCAAGA	CTGAGACGAT	CACTGGCTTC	1200
CAAGTTGATG	CCGTTCCAGC	CAATGGCCAG	ACTCCAATCC	AGAGAACCAT	CAAGCCAGAT	1260
GTCAGAAGCT	ACACCATCAC	AGGTTTACAA	CCAGGCACTG	ACTACAAGAT	CTACCTGTAC	1320
ACCTTGAATG	ACAATGCTCG	GAGCTCCCCT	GTGGTCATCG	ACGCCTCCAC	TGCCATTGAT	1380
GCACCATCCA	ACCTGCGTTT	CCTGGCCACC	ACACCCAATT	CCTTGCTGGT	ATCATGGCAG	1440
CCGCCACGTG	CCAGGATTAC	CGGCTACATC	ATCAAGTATG	AGAAGCCTGG	GTCTCCTCCC	1500
AGAGAAGTGG	TCCCTCGGCC	CCGCCCTGGT	GTCACAGAGG	СТАСТАТТАС	TGGCCTGGAA	1560
CCGGGAACCG	AATATACAAT	TTATGTCATT	GCCCTGAAGA	ATAATCAGAA	GAGCGAGCCC	1620
CTGATTGGAA	GGAAAAAGAC	TAGT				1644

20 SEQ. ID No. 18

LENGTH: 37

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULAR TYPE: other nucleic acid (synthetic DNA)

5	
The first control of the control of	
15	

SEQUENCE:

AAACCATGGC AGCTAGCCCC ACTGACCTGC GATTCAC

37

SEQ. ID No. 19

LENGTH: 38

5 TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULAR TYPE: other nucleic acid (synthetic DNA)

SEQUENCE:

AAAAGATCTC TAACTAGTGG ATGGTTTGTC AATTTCTG

38

SEQ. ID No. 20

LENGTH: 2481

TYPE: nucleic acid

STRANDEDNESS: double

15 TOPOLOGY: linear

MOLECULAR TYPE: other nucleic acid (DNA encoding an artificial

polypeptyide)

SEQUENCE:

ATGGCAGCTA GCCCCACTGA CCTGCGATTC ACCAACATTG GTCCAGACAC CATGCGTGTC 60

20 ACCTGGGCTC CACCCCCATC CATTGATTTA ACCAACTTCC TGGTGCGTTA CTCACCTGTG 120

AAAAATGAGG AAGATGTTGC AGAGTTGTCA ATTTCTCCTT CAGACAATGC AGTGGTCTTA 180

ACAAATCTCC TGCCTGGTAC AGAATATGTA GTGAGTGTCT CCAGTGTCTA CGAACAACAT 240

GAGAGCACAC CTCTTAGAGG AAGACAGAAA ACAGGTCTTG ATTCCCCAAC TGGCATTGAC 300

TTTTCTGATA TTACTGCCAA CTCTTTTACT GTGCACTGGA TTGCTCCTCG AGCCACCATC

5

20

25

ACTGGCTACA GGATCCGCCA TCATCCCGAG CACTTCAGTG GGAGACCTCG AGAAGATCGG 420 GTGCCCCACT CTCGGAATTC CATCACCCTC ACCAACCTCA CTCCAGGCAC AGAGTATGTG 480 GTCAGCATCG TTGCTCTTAA TGGCAGAGAG GAAAGTCCCT TATTGATTGG CCAACAATCA 540 ACAGTTTCTG ATGTTCCGAG GGACCTGGAA GTTGTTGCTG CGACCCCCAC CAGCCTACTG 600 ATCAGCTGGG ATGCTCCTGC TGTCACAGTG AGATATTACA GGATCACTTA CGGAGAAACA 660 GGAGGAAATA GCCCTGTCCA GGAGTTCACT GTGCCTGGGA GCAAGTCTAC AGCTACCATC 720 AGCGGCCTTA AACCTGGAGT TGATTATACC ATCACTGTGT ATGCTGTCAC TGGCCGTGGA 780 GACAGCCCC CAAGCAGCAA GCCAATTTCC ATTAATTACC GAACAGAAAT TGACAAACCA 840 TCCACTAGCG CTATTCCTGC ACCAACTGAC.CTGAAGTTCA CTCAGGTCAC ACCCACAAGC 900 CTGAGCGCCC AGTGGACACC ACCCAATGTT CAGCTCACTG GATATCGAGT GCGGGTGACC 960 CCCAAGGAGA AGACCGGACC AATGAAAGAA ATCAACCTTG CTCCTGACAG CTCATCCGTG 1020 GTTGTATCAG GACTTATGGT GGCCACCAAA TATGAAGTGA GTGTCTATGC TCTTAAGGAC 1080 ACTTTGACAA GCAGACCAGC TCAGGGTGTT GTCACCACTC TGGAGAATGT CAGCCCACCA 1140 AGAAGGCTC GTGTGACAGA TGCTACTGAG ACCACCATCA CCATTAGCTG GAGAACCAAG 1200 ACTGAGACGA TCACTGGCTT CCAAGTTGAT GCCGTTCCAG CCAATGGCCA GACTCCAATC 1260 CAGAGAACCA TCAAGCCAGA TGTCAGAAGC TACACCATCA CAGGTTTACA ACCAGGCACT 1320 GACTACAAGA TCTACCTGTA CACCTTGAAT GACAATGCTC GGAGCTCCCC TGTGGTCATC 1380 GACGCCTCCA CTGCCATTGA TGCACCATCC AACCTGCGTT TCCTGGCCAC CACACCCAAT 1440 TCCTTGCTGG TATCATGGCA GCCGCCACGT GCCAGGATTA CCGGCTACAT CATCAAGTAT 1500 GAGAAGCCTG GGTCTCCTCC CAGAGAAGTG GTCCCTCGGC CCCGCCCTGG TGTCACAGAG 1560 GCTACTATTA CTGGCCTGGA ACCGGGAACC GAATATACAA TTTATGTCAT TGCCCTGAAG 1620 AATAATCAGA AGAGCGAGCC CCTGATTGGA AGGAAAAAGA CTAGCGCTAT TCCTGCACCA 1680 ACTGACCTGA AGTTCACTCA GGTCACACCC ACAAGCCTGA GCGCCCAGTG GACACCACCC 1740 AATGTTCAGC TCACTGGATA TCGAGTGCGG GTGACCCCCA AGGAGAAGAC CGGACCAATG 1800

AAAGAAATCA	ACCTTGCTCC	TGACAGCTCA	TCCGTGGTTG	TATCAGGACT	TATGGTGGCC	1960
ACCAAATATG	AAGTGAGTGT	CTATGCTCTT	AAGGACACTT	TGACAAGCAG	ACCAGCTCAG	1920
GGTGTTGTCA	CCACTCTGGA	GAATGTCAGC	CCACCAAGAA	GGGCTCGTGT	GACAGATGCT	1980
ACTGAGACCA	CCATCACCAT	TAGCTGGAGA	ACCAAGACTG	AGACGATCAC	TGGCTTCCAA	2040
GTTGATGCCG	TTCCAGCCAA	TGGCCAGACT	CCAATCCAGA	GAACCATCAA	GCCAGATGTC	2100
AGAAGCTACA	CCATCACAGG	TTTACAACCA	GGCACTGACT	ACAAGATCTA	CCTGTACACC	2160
TTGAATGACA	ATGCTCGGAG	CTCCCCTGTG	GTCATCGACG	CCTCCACTGC	CATTGATGCA	2220
CCATCCAACC	TGCGTTTCCT	GGCCACCACA	CCCAATTCCT	TGCTGGTATC	ATGGCAGCCG	2280
CCACGTGCCA	GGATTACCGG	CTACATCATC	AAGTATGAGA	AGCCTGGGTC	TCCTCCCAGA	2340
GAAGTGGTCC	CTCGGCCCCG	CCCTGGTGTC	ACAGAGGCTA	CTATTACTGG	CCTGGAACCG	2400
GGAACCGAAT	ATACAATTTA	TGTCATTGCC	CTGAAGAATA	ATCAGAAGAG	CGAGCCCCTG	2460
ATTGGAAGGA	AAAAGACTAG	${f T}$				2481

SEQ. ID No. 21

LENGTH: 472

15 TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULAR TYPE: peptide

SEQUENCE:

20 Pro Thr Asp Leu Arg Phe Thr Asn Ile Gly Pro Asp Thr Met Arg

1 5 10 15

Val Thr Trp Ala Pro Pro Pro Ser Ile Asp Leu Thr Asn Phe Leu

20 25 30

Val Arg Tyr Ser Pro Val Lys Asn Glu Glu Asp Val Ala Glu Leu

					410					415					420
	Pro	Asp	Val	Arg	Ser	Tyr	Thr	Ile	Thr	Gly	Leu	Gln	Pro	Gly	Thr
					425					430					435
	Asp	Tyr	Lys	Ile	Tyr	Leu	Tyr	Thr	Leu	Asn	Asp	Asn	Ala	Arg	Ser
5					440					445			•		450
	Ser	Pro	Val	Val	Ile	Asp	Ala	Ser	Thr	Ala	Ile	Asp	Ala	Pro	Ser
					455					460					465
	Asn	Leu	Arg	Phe	Leu	Ala	Thr								
					470										
10	SEQ	. ID	No.	22											
1	LENG	GTH:	457												
2 00 000 0	TYPI	Ξ: δ	amino	o ac	iđ										
	STR	ANDEI	ONESS	S: s	singl	le									
a for just on the second of th	TOP	OLOGY	?:]	linea	ar										
15	MOLE	ECULA	AR TY	PE:	per	otide	∍								
	SEQU	JENCE	3:												
	Pro	Thr	Asp	Leu	Arg	Phe	Thr	Asn	Ile	Gly	Pro	Asp	Thr	Met	Arg
	1				5					10					15
	Val	Thr	Trp	Ala	Pro	Pro	Pro	Ser	Ile	Asp	Leu	Thr	Asn	Phe	Leu
20					20					25					30
	Val	Arg	Tyr	Ser	Pro	Val	Lys	Asn	Glu	Glu	Asp	Val	Ala	Glu	Leu
					35					40					45
	Ser	Ile	Ser	Pro	Ser	Asp	Asn	Ala	Val	Val	Leu	Thr	Asn	Leu	Leu
					50					55					60

Thr Ile Tyr Val Ile Ala Leu Lys Asn Asn Gln Lys Ser Glu Pro

		Leu Ile Gly Arg								445					450
	Leu	Ile	Gly	Arg	Lys	Lys	Thr								
					455										
5	SEQ	. ID	No.	23											
	LEN	GTH:	549												
	TYPI	E: a	amino	aci	lđ										
And the second s	STR	ANDEL	ONESS	S: s	singl	.e									
	торо	OLOGY	7:]	linea	ar										
10	MOL	ECULA	AR TY	PE:	per	otide	9								
	SEQ	UENCE	፤:												
Anny Court and Anny Court and Anny Anny Anny Anny Anny Anny Anny An	Pro	Thr	Asp	Leu	Arg	Phe	Thr	Asn	Ile	Gly	Pro	Asp	Thr	Met	Arg
	1				5					10					15
	Val	Thr	Trp	Ala	Pro	Pro	Pro	Ser	Ile	Asp	Leu	Thr	Asn	Phe	Leu
15					20					25					30
	Val	Arg	Tyr	Ser	Pro	Val	Lys	Asn	Glu	Glu	Asp	Val	Ala	Glu	Leu
					35					40					45
	Ser	Ile	Ser	Pro	Ser	Asp	Asn	Ala	Val	Val	Leu	Thr	Asn	Leu	Leu
					50					55					60
20	Pro	Gly	Thr	Glu	Tyr	Val	Val	Ser	Val	Ser	Ser	Val	Tyr	Glu	Gln
•					65					70					75
	His	Glu	Ser	Thr	Pro	Leu	Arg	Gly	Arg	Gln	Lys	Thr	Gly	Leu	Asp
					80					85					90
	Ser	Pro	Thr	Gly	Ile	Asp	Phe	Ser	Asp	Ile	Thr	Ala	Asn	Ser	Phe

						95					100					105
	•	Thr	Val	His	Trp	Ile	Ala	Pro	Arg	Ala	Thr	Ile	Thr	Gly	Tyr	Arg
						110					115					120
		Ile	Arg	His	His	Pro	Glu	His	Phe	Ser	Gly	Arg	Pro	Arg	Glu	Asp
5	5					125					130					135
		Arg	Val	Pro	His	Ser	Arg	Asn	Ser	Ile	Thr	Leu	Thr	Asn	Leu	Thr
						140					145					150
175		Pro	Gly	Thr	Glu	Tyr	Val	Val	Ser	.Ile	Val	Ala	Leu	Asn	Gly	Arg
						155					160					165
1)	Glu	Glu	Ser	Pro	Leu	Leu	Ile	Gly	Gln	Gln	Ser	Thr	Val	Ser	Asp
						170					175					180
#:		Val	Pro	Arg	Asp	Leu	Glu	Val	Val	Ala	Ala	Thr	Pro	Thr	Ser	
A Company of the Comp						185					190					195
		Leu	Ile	Ser	Trp	Asp	Ala	Pro	Ala	Val		Val	Arg	Tyr	Tyr	
115	5					200					205					210
		Ile	Thr	Tyr	Gly		Thr	Gly	Gly	Asn		Pro	Val	Gln	Glu	
						215					220				_	225
		Thr	Val	Pro	Gly		Lys	Ser	Thr	Ala		Ile	Ser	Gly	Leu	
	_					230		_			235		-		~ 1	240
20)	Pro	Gly	Val	Asp		Thr	Ile	Thr	Val		Ala	Val	Thr	GLY	
						245				_	250	_		_		255
		Gly	Asp	Ser	Pro		Ser	Ser	Lys	Pro		Ser	He	Asn	'l'yr	
						260					265	_		_	ml	270
	_	Thr	Glu	Ile	Asp		Pro	Ser	Met	Ala		Pro	Ala	Pro	TOT	
2	5					275					280					285

Leu Lys Phe Thr Gln Val Thr Pro Thr Ser Leu Ser Ala Gln Trp

Asn Leu Arg Phe Leu Ala Thr Thr Pro Asn Ser Leu Leu Val Ser

	470 475 480)
	Trp Gln Pro Pro Arg Ala Arg Ile Thr Gly Tyr Ile Ile Lys Tyr	•
	485 490 495	;
	Glu Lys Pro Gly Ser Pro Pro Arg Glu Val Val Pro Arg Pro Arg	ŗ
5	500 505 510)
	Pro Gly Val Thr Glu Ala Thr Ile Thr Gly Leu Glu Pro Gly Thr	?
	515 520 525	5
	Glu Tyr Thr Ile Tyr Val Ile Ala Leu Lys Asn Asn Gln Lys Ser	:
1 <u>11</u>	530 535 540)
10	Glu Pro Leu Ile Gly Arg Lys Lys Thr	
nder Land fan serie en je 'n serie land geste land geste land geste fan	545	
	SEQ. ID No. 24	
	LENGTH: 574	
	TYPE: amino acid	
15	STRANDEDNESS: single	
	TOPOLOGY: linear	
	MOLECULAR TYPE: peptide	
	SEQUENCE:	
	Pro Thr Asp Leu Arg Phe Thr Asn Ile Gly Pro Asp Thr Met Arg	3
20	1 5 10 15	5
	Val Thr Trp Ala Pro Pro Pro Ser Ile Asp Leu Thr Asn Phe Le	u
	20 25 3	C
	Val Arg Tyr Ser Pro Val Lys Asn Glu Glu Asp Val Ala Glu Le	u
	35 40 4	5

	Ser	Ile	Ser	Pro	Ser	Asp	Asn	Ala	Val	Val	Leu	Thr	Asn	Leu	Leu
					50					55					60
	Pro	Gly	Thr	Glu	Tyr	Val	Val	Ser	Val	Ser	Ser	Val	Tyr	Glu	Gln
					65					70					75
5	His	Glu	Ser	Thr	Pro	Leu	Arg	Gly	Arg	Gln	Lys	Thr	Gly	Leu	Asp
					80					85					90
	Ser	Pro	Thr	Gly	Ile	Asp	Phe	Ser	Asp	Ile	Thr	Ala	Asn	Ser	Phe
					95					100					105
	Thr	Val	His	Trp	Ile	Ala	Pro	Arg	Ala	Thr	Ile	Thr	Gly	Tyr	Arg
0					110					115					120
	Ile	Arg	His	His	Pro	Glu	His	Phe	Ser	Gly	Arg	Pro	Arg	Glu	Asp
					125				•	130					135
	Arg	Val	Pro	His	Ser	Arg	Asn	Ser	Ile	Thr	Leu	Thr	Asn	Leu	Thr
					140					145					150
5	Pro	Gly	Thr	Glu	Tyr	Val	Val	Ser	Ile	Val	Ala	Leu	Asn	Gly	Arg
					155					160					165
	Glu	Glu	Ser	Pro	Leu	Leu	Ile	Gly	Gln	Gln	Ser	Thr	Val	Ser	Asp
					170					175					180
	Val	Pro	Arg	Asp	Leu	Glu	Val	Val	Ala	Ala	Thr	Pro	Thr	Ser	Leu
20					185					190					195
	Leu	Ile	Ser	Trp	Asp	Ala	Pro	Ala	Val	Thr	Val	Arg	Tyr	Tyr	Arg
					200					205					210
	Ile	Thr	Tyr	Gly	Glu	Thr	Gly	Gly	Asn	Ser	Pro	Val	Gln	Glu	Phe
					215					220					225
25	mb	1701	Dro	C1		Two	Son	Th~	· 71 -	Thr	Tle	Ser	Glv	Leu	Lvs

					230					235					240
	Pro	Gly	Val	Asp	Tyr	Thr	Ile	Thr	Val	Tyr	Ala	Val	Thr	Gly	Arg
					245					250					255
	Gly	Asp	Ser	Pro	Ala	Ser	Ser	Lys	Pro	Ile	Ser	Ile	Asn	Tyr	Arg
5					260					265					270
	Thr	Glu	Ile	Asp	Lys	Pro	Ser	Met	Ala	Ile	Pro	Ala	Pro	Thr	Asp
					275					280					285
	Leu	Lys	Phe	Thr	Gln	Val	Thr	Pro	Thr	Ser	Leu	Ser	Ala	Gln	Trp
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					290					295					300
10	Thr	Pro	Pro	Asn	Val	Gln	Leu	Thr	Gly	Tyr	Arg	Val	Arg	Val	Thr
Service Servic					305					310					315
51	Pro	Lys	Glu	Lys	Thr	Gly	Pro	Met	Lys	Glu	Ile	Asn	Leu	Ala	Pro
					320					325					330
	Asp	Ser	Ser	Ser	Val	Val	Val	Ser	Gly	Leu	Met	Val	Ala	Thr	Lys
15					335					340					345
	Tyr	Glu	Val	Ser	Val	Tyr	Ala	Leu	Lys	Asp	Thr	Leu	Thr	Ser	Arg
					350					355					360
	Pro	Ala	Gln	Gly	Val	Val	Thr	Thr	Leu	Glu	Asn	Val	Ser	Pro	Pro
					365					370					375
20	Arg	Arg	Ala	Arg	Val	Thr	Asp	Ala	Thr	Glu	Thr	Thr	Ile	Thr	Ile
					380					385					390
	Ser	Trp	Arg	Thr	Lys	Thr	Glu	Thr	Ile	Thr	Gly	Phe	Gln	Val	Asp
					395	i				400	I				405
	Ala	a Val	l Pro) Ala	Asn	Gly	g Gln	Thr	Pro) Ile	Glr	Arg	Thr	Ile	Lys
25					410)				415	•				420

	Pro	Asp	Val	Arg	Ser	Tyr	Thr	Ile	Thr	Gly	Leu	Gln	Pro	Gly	Thr
					425					430					435
	Asp	Tyr	Lys	Ile	Tyr	Leu	Tyr	Thr	Leu	Asn	Asp	Asn	Ala	Arg	Ser
					440					445					450
5	Ser	Pro	Val	Val	Ile	Asp	Ala	Ser	Thr	Ala	Ile	Asp	Ala	Pro	Ser
					455					460					465
	Asn	Leu	Arg	Phe	Leu	Ala	Thr	Thr	Pro	Asn	Ser	Leu	Leu	Val	Ser
					470					475					480 ·
The state of the s	Trp	Gln	Pro	Pro	Arg	Ala	Arg	Ile	Thr	Gly	Tyr	Ile	Ile	Lys	Tyr
10					485					490					495
	Glu	Lys	Pro	Gly	Ser	Pro	Pro	Arg	Glu	Val	Val	Pro	Arg	Pro	Arg
3 :					500					505					510
	Pro	Gly	Val	Thr	Glu	Ala	Thr	Ile	Thr	Gly	Leu	Glu	Pro	Gly	Thr
					515					520					525
1 5	Glu	Tyr	Thr	Ile	Tyr	Val	Ile	Ala	Leu	Lys	Asn	Asn	Gln	Lys	Ser
•					530					535					540
	Glu	Pro	Leu	Ile	Gly	Arg	Lys	Lys	Thr	Asp	Glu	Leu	Pro	Gln	Leu
					545					550					555
	Val	Thr	Leu	Pro	His	Pro	Asn	Leu	His	Gly	Pro	Glu	Ile	Leu	Asp
20					560					565					570

Val Pro Ser Thr

SEQ. ID No. 25

LENGTH: 274

TYPE: amino acid

	TOPO	LOGY	?: 1	inea	ır										
	MOLE	CULA	AR TY	PE:	pep	tide	:								
	SEQU	JENCE	Ξ:												
5	Pro	Thr	Asp	Leu	Arg	Phe	Thr	Asn	Ile	Gly	Pro	Asp	Thr	Met	Arg
	1				5					10					15
	Val	Thr	Trp	Ala	Pro	Pro	Pro	Ser	Ile	Asp	Leu	Thr	Asn	Phe	Leu
					20					25					30
	Val	Arg	Tyr	Ser	Pro	Val	Lys	Asn	Glu	Glu	Asp	Val	Ala	Glu	Leu
10					35					40					45
	Ser	Ile	Ser	Pro	Ser	Asp	Asn	Ala	Val	Val	Leu	Thr	Asn	Leu	Leu
Ħ					50					55					60
	Pro	Gly	Thr	Glu	Tyr	Val	Val	Ser	Val	Ser	Ser	Val	Tyr	Glu	Gln
<u>.</u> 11					65					70					75
15	His	Glu	Ser	Thr	Pro	Leu	Arg	Gly	Arg	Gln	Lys	Thr	Gly	Leu	Asp
					80					85					90
	Ser	Pro	Thr	Gly	Ile	Asp	Phe	Ser	Asp	Ile	Thr	Ala	Asn	Ser	Phe
					95					100					105
	Thr	Val	His	Trp	Ile	Ala	Pro	Arg	Ala	Thr	Ile	Thr	Gly	Tyr	Arg
20					110					115	,				120
	Ile	Arg	His	His	Pro	Glu	His	Phe	Ser	Gly	Arg	Pro	Arg	Glu	Asp
					125					130					135
	Arg	Val	Pro	His	Ser	Arg	Asn	Ser	Ile	Thr	Leu	Thr	Asn	Leu	Thr
					140					145					150

Pro Gly Thr Glu Tyr Val Val Ser Ile Val Ala Leu Asn Gly Arg

STRANDEDNESS: single

					155					160					165
	Glu	Glu	Ser	Pro	Leu	Leu	Ile	Gly	Gln	Gln	Ser	Thr	Val	Ser	Asp
					170					175					180
	Val	Pro	Arg	Asp	Leu	Glu	Val	Val	Ala	Ala	Thr	Pro	Thr	Ser	Leu
5					185					190					195
	Leu	Ile	Ser	Trp	Asp	Ala	Pro	Ala	Val	Thr	Val	Arg	Tyr	Tyr	Arg
					200					205					210
	Ile	Thr	Tyr	Gly	Glu	Thr	Gly	Gly	Asn	Ser	Pro	Val	Gln	Glu	Phe
1 0					215					220					225
	Thr	Val	Pro	Gly	Ser	Lys	Ser	Thr	Ala	Thr	Ile	Ser	Gly	Leu	Lys
					230					235					240
e control	Pro	Gly	Val	Asp	Tyr	Thr	Ile	Thr	Val	Tyr	Ala	Val	Thr	Gly	Arg
					245					250					255
Annual An	Gly	Asp	Ser	Pro	Ala	Ser	Ser	Lys	Pro	Ile	Ser	Ile	Asn	Tyr	Arg
1 5					260					265					270
+															

Thr Glu Ile Asp

SEQ. ID No. 26

LENGTH: 1374

TYPE: nucleic acid

20 STRANDEDNESS: double

TOPOLOGY: linear

MOLECULAR TYPE: other nucleic acid (DNA encoding an artificial

polypeptide)

SEQUENCE:

ATGCCCACTG ACCTGCGATT CACCAACATT GGTCCAGACA CCATGCGTGT CACCTGGGCT	60
CCACCCCAT CCATTGATTT AACCAACTTC CTGGTGCGTT ACTCACCTGT GAAAAATGAG	120
GAAGATGTTG CAGAGTTGTC AATTTCTCCT TCAGACAATG CAGTGGTCTT AACAAATCTC	180
CTGCCTGGTA CAGAATATGT AGTGAGTGTC TCCAGTGTCT ACGAACAACA TGAGAGCACA	240
CCTCTTAGAG GAAGACAGAA AACAGGTCTT GATTCCCCAA CTGGCATTGA CTTTTCTGAT	300
ATTACTGCCA ACTCTTTTAC TGTGCACTGG ATTGCTCCTC GAGCCACCAT CACTGGCTAC	360
AGGATCCGCC ATCATCCCGA GCACTTCAGT GGGAGACCTC GAGAAGATCG GGTGCCCCAC	420
TCTCGGAATT CCATCACCCT CACCAACCTC ACTCCAGGCA CAGAGTATGT GGTCAGCATC	480
GTTGCTCTTA ATGGCAGAGA GGAAAGTCCC TTATTGATTG GCCAACAATC AACAGTTTCT	540
GATGTTCCGA GGGACCTGGA AGTTGTTGCT GCGACCCCCA CCAGCCTACT GATCAGCTGG	600
GATGCTCCTG CTGTCACAGT GAGATATTAC AGGATCACTT ACGGAGAAAC AGGAGGAAAT	660
AGCCCTGTCC AGGAGTTCAC TGTGCCTGGG AGCAAGTCTA CAGCTACCAT CAGCGGCCTT	720
AAACCTGGAG TTGATTATAC CATCACTGTG TATGCTGTCA CTGGCCGTGG AGACAGCCCC	780
GCAAGCAGCA AGCCAATTTC CATTAATTAC CGAACAGAAA TTGACAAACC ATCCATGGCA	840
GCCGGGAGCA TCACCACGCT GCCCGCCTTG CCCGAGGATG GCGGCAGCGG CGCCTTCCCG	900
CCCGGCCACT TCAAGGACCC CAAGCGGCTG TACTGCAAAA ACGGGGGCTT CTTCCTGCGC	960
ATCCACCCG ACGCCGAGT TGACGGGGTC CGGGAGAAGA GCGACCCTCA CATCAAGCTA	1020
CAACTTCAAG CAGAAGAGAG AGGAGTTGTG TCTATCAAAG GAGTGTGTGC TAACCGTTAC	1080
CTGGCTATGA AGGAAGATGG AAGATTACTG GCTTCTAAAT GTGTTACGGA TGAGTGTTTC	1140
TTTTTTGAAC GATTGGAATC TAATAACTAC AATACTTACC GCTCAAGGAA ATACACCAGT	1200
TGGTATGTGG CACTGAAACG AACTGGGCAG TATAAACTTG GATCCAAAAC AGGACCTGGG	1260
CAGAAAGCTA TACTTTTTCT TCCAATGTCT GCTGCTAGCG ACGAGCTTCC CCAACTGGTA	1320
ACCCTTCCAC ACCCCAATCT TCATGGACCA GAGATCTTGG ATGTTCCTTC CACA	1374

25

LENGTH: 1416

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear

5 MOLECULAR TYPE: other nucleic acid (DNA encoding an artificial

polypeptide)

SEQUENCE:

CCCACTGACC TGCGATTCAC CAACATTGGT CCAGACACCA TGCGTGTCAC CTGGGCTCCA	60
CCCCCATCCA TTGATTTAAC CAACTTCCTG GTGCGTTACT CACCTGTGAA AAATGAGGAA	120
GATGTTGCAG AGTTGTCAAT TTCTCCTTCA GACAATGCAG TGGTCTTAAC AAATCTCCTG	180
CCTGGTACAG AATATGTAGT GAGTGTCTCC AGTGTCTACG AACAACATGA GAGCACACCT	240
CTTAGAGGAA GACAGAAAAC AGGTCTTGAT TCCCCAACTG GCATTGACTT TTCTGATATT	300
ACTGCCAACT CTTTTACTGT GCACTGGATT GCTCCTCGAG CCACCATCAC TGGCTACAGG	360
ATCCGCCATC ATCCCGAGCA CTTCAGTGGG AGACCTCGAG AAGATCGGGT GCCCCACTCT	420
CGGAATTCCA TCACCCTCAC CAACCTCACT CCAGGCACAG AGTATGTGGT CAGCATCGTT	480
GCTCTTAATG GCAGAGAGGA AAGTCCCTTA TTGATTGGCC AACAATCAAC AGTTTCTGAT	540
GTTCCGAGGG ACCTGGAAGT TGTTGCTGCG ACCCCCACCA GCCTACTGAT CAGCTGGGAT	600
GCTCCTGCTG TCACAGTGAG ATATTACAGG ATCACTTACG GAGAAACAGG AGGAAATAGC	660
CCTGTCCAGG AGTTCACTGT GCCTGGGAGC AAGTCTACAG CTACCATCAG CGGCCTTAAA	720
CCTGGAGTTG ATTATACCAT CACTGTGTAT GCTGTCACTG GCCGTGGAGA CAGCCCCGCA	780
AGCAGCAAGC CAATTTCCAT TAATTACCGA ACAGAAATTG ACAAACCATC CATGGCTATT	840
CCTGCACCAA CTGACCTGAA GTTCACTCAG GTCACACCCA CAAGCCTGAG CGCCCAGTGG	900
ACACCACCCA ATGTTCAGCT CACTGGATAT CGAGTGCGGG TGACCCCCAA GGAGAAGACC	960
GGACCAATGA AAGAAATCAA CCTTGCTCCT GACAGCTCAT CCGTGGTTGT ATCAGGACTT	020
ATGGTGGCCA CCAAATATGA AGTGAGTGTC TATGCTCTTA AGGACACTTT GACAAGCAGA 1	080

5 -

CCAGCTCAGG GTGTTGTCAC CACTCTGGAG AATGTCAGCC CACCAAGAAG GGCTCGTGTG 1140

ACAGATGCTA CTGAGACCAC CATCACCATT AGCTGGAGAA CCAAGACTGA GACGATCACT 1200

GGCTTCCAAG TTGATGCCGT TCCAGCCAAT GGCCAGACTC CAATCCAGAG AACCATCAAG 1260

CCAGATGTCA GAAGCTACAC CATCACAGGT TTACAACCAG GCACTGACTA CAAGATCTAC 1320

CTGTACACCT TGAATGACAA TGCTCGGAGC TCCCCTGTGG TCATCGACGC CTCCACTGCC 1380

ATTGATGCAC CATCCAACCT GCGTTTCCTG GCCACC 1416

SEQ. ID No. 28

LENGTH: 35

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULAR TYPE: peptide

SEQUENCE:

Gly Gly Arg Gly Thr Pro Gly Lys Pro Gly Pro Arg Gly Gln Arg

1 5 10 15

Gly Pro Thr Gly Pro Arg Gly Glu Arg Gly Pro Arg Gly Ile Thr

20 25 30

Gly Lys Pro Gly Pro

35

20 SEQ. ID No. 29

LENGTH: 302

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY:

linear

MOLECULAR TYPE: peptide **SEQUENCE:** Pro Thr Asp Leu Arg Phe Thr Asn Ile Gly Pro Asp Thr Met Arg Val Thr Trp Ala Pro Pro Pro Ser Ile Asp Leu Thr Asn Phe Leu Val Arg Tyr Ser Pro Val Lys Asn Glu Glu Asp Val Ala Glu Leu Ser Ile Ser Pro Ser Asp Asn Ala Val Val Leu Thr Asn Leu Leu Pro Gly Thr Glu Tyr Val Val Ser Val Ser Val Tyr Glu Gln His Glu Ser Thr Pro Leu Arg Gly Arg Gln Lys Thr Gly Leu Asp Ser Pro Thr Gly Ile Asp Phe Ser Asp Ile Thr Ala Asn Ser Phe Thr Val His Trp Ile Ala Pro Arg Ala Thr Ile Thr Gly Tyr Arg

Ile Arg His His Pro Glu His Phe Ser Gly Arg Pro Arg Glu Asp Arg Val Pro His Ser Arg Asn Ser Ile Thr Leu Thr Asn Leu Thr Pro Gly Thr Glu Tyr Val Val Ser Ile Val Ala Leu Asn Gly Arg

	Glu	Glu	Ser	Pro	Leu	Leu	Ile	Gly	Gln	Gln	Ser	Thr	Val	Ser	Asp
					170					175					180
	Val	Pro	Arg	Asp	Leu	Glu	Val	Val	Ala	Ala	Thr	Pro	Thr	Ser	Leu
					185					190					195
5	Leu	Ile	Ser	Trp	Asp	Ala	Pro	Ala	Val	Thr	Val	Arg	Tyr	Tyr	Arg
					200					205					210
	Ile	Thr	Tyr	Gly	Glu	Thr	Gly	Gly	Asn	Ser	Pro	Val	Gln	Glu	Phe
r 107					215					220					225
	Thr	Val	Pro	Gly	Ser	Lys	Ser	Thr	Ala	Thr	Ile	Ser	Gly	Leu	Lys
0					230					235					240
3 A S A S A S A S A S A S A S A S A S A	Pro	Gly	Val	Asp	Tyr	Thr	Ile	Thr	Val	Tyr	Ala	Val	Thr	Gly	Arg
car and					245					250					255
	Gly	Asp	Ser	Pro	Ala	Ser	Ser	Lys	Pro	Ile	Ser	Ile	Asn	Tyr	Arg
					260					265					270
5	Thr	Glu	Ile	Asp	Lys	Pro	Ser	Asp	Glu	Leu	Pro	Gln	Leu	Val	Thr
					275					280					285
	Leu	Pro	His	Pro	Asn	Leu	His	Gly	Pro	Glu	Ile	Leu	Asp	Val	Pro
					290					295					300
	Ser	Thr													

20 SEQ. ID No. 30

LENGTH: 573

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULAR TYPE: peptide

SEQUENCE:

Met Ala Ala Ser Ala Ile Pro Ala Pro Thr Asp Leu Lys Phe Thr Gln Val Thr Pro Thr Ser Leu Ser Ala Gln Trp Thr Pro Pro Asn Val Gln Leu Thr Gly Tyr Arg Val Arg Val Thr Pro Lys Glu Lys Thr Gly Pro Met Lys Glu Ile Asn Leu Ala Pro Asp Ser Ser Ser Val Val Val Ser Gly Leu Met Val Ala Thr Lys Tyr Glu Val Ser Val Tyr Ala Leu Lys Asp Thr Leu Thr Ser Arg Pro Ala Gln Gly Val Val Thr Thr Leu Glu Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Gly Phe Gln Val Asp Ala Val Pro Ala Asn Gly Gln Thr Pro Ile Gln Arg Thr Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr Asp Tyr Lys Ile Tyr Leu Tyr Thr Leu Asn Asp Asn Ala Arg Ser Ser Pro Val Val

	Gly	Val	Val	Thr	Thr	Leu	Glu	Asn	Val	Ser	Pro	Pro	Arg	Arg	Ala
					365			•		370					375
	Arg	Val	Thr	Asp	Ala	Thr	Glu	Thr	Thr	Ile	Thr	Ile	Ser	Trp	Arg
					380					385					390
5	Thr	Lys	Thr	Glu	Thr	Ile	Thr	Gly	Phe	Gln	Val	Asp	Ala	Val	Pro
					395					400					405
	Ala	Asn	Gly	Gln	Thr	Pro	Ile	Gln	Arg	Thr	Ile	Lys	Pro	Asp	Val
					410					415					420
	Arg	Ser	Tyr	Thr	Ile	Thr	Gly	Leu	Gln	Pro	Gly	Thr	Asp	Tyr	Lys
10					425					430					435
	Ile	Tyr	Leu	Tyr	Thr	Leu	Asn	Asp	Asn	Ala	Arg	Ser	Ser	Pro	Val
					440					445					450
	Val	Ile	Asp	Ala	Ser	Thr	Ala	Ile	Asp	Ala	Pro	Ser	Asn	Leu	Arg
					455					460					465
1 5	Phe	Leu	Ala	Thr	Thr	Pro	Asn	Ser	Leu	Leu	Val	Ser	Trp	Gln	Pro
					470					475					480
	Pro	Arg	Ala	Arg	Ile	Thr	Gly	Tyr	Ile	Ile	Lys	Tyr	Glu	Lys	Pro
					485					490					495
	Gly	Ser	Pro	Pro	Arg	Glu	Val	Val	Pro	Arg	Pro	Arg	Pro	Gly	Val
20					500					505					510
	Thr	Glu	Ala	Thr	Ile	Thr	Gly	Leu	Glu	Pro	Gly	Thr	Glu	Tyr	Thr
					515					520					525
	Ile	Tyr	Val	Ile	Ala	Leu	Lys	Asn	Asn	Gln	Lys	Ser	Glu	Pro	Leu
					530					535					540
25	Ile	Gly	Arg	Lys	Lys	Thr	Ser	Asp	Glu	Leu	Pro	Gln	Leu	Val	Thr

555

Leu Pro His Pro Asn Leu His Gly Pro Glu Ile Leu Asp Val Pro 560 565 570 Ser Thr Ser 5 SEQ. ID No. 31 LENGTH: 37 TYPE: nucleic acid single STRANDEDNESS: TOPOLOGY: linear MOLECULAR TYPE: other nucleic acid (synthetic DNA) SEQUENCE: 37 AAACCATGGC AGCTAGCAAT GTCAGCCCAC CAAGAAG SEQ. ID No. 32 LENGTH: 37 15 TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear MOLECULAR TYPE: other nucleic acid (synthetic DNA) SEQUENCE: 37 20 AAAGGATCCC TAACTAGTGG AAGGAACATC CAAGATC SEQ. ID No. 33

545

LENGTH: 1722

25

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear

MOLECULAR TYPE: other nucleic acid (DNA encoding an artificial

5 polypeptide)

SEQUENCE:

ATGGCAGCTA GCGCTATTCC TGCACCAACT GACCTGAAGT TCACTCAGGT CACACCCACA 60 AGCCTGAGCG CCCAGTGGAC ACCACCCAAT GTTCAGCTCA CTGGATATCG AGTGCGGGTG 120 ACCCCCAAGG AGAAGACCGG ACCAATGAAA GAAATCAACC TTGCTCCTGA CAGCTCATCC 180 GTGGTTGTAT CAGGACTTAT GGTGGCCACC AAATATGAAG TGAGTGTCTA TGCTCTTAAG 240 GACACTTTGA CAAGCAGACC AGCTCAGGGT GTTGTCACCA CTCTGGAGAA TGTCAGCCCA 300 CCAAGAAGGG CTCGTGTGAC AGATGCTACT GAGACCACCA TCACCATTAG CTGGAGAACC 360 AAGACTGAGA CGATCACTGG CTTCCAAGTT GATGCCGTTC CAGCCAATGG CCAGACTCCA 420 ATCCAGAGAA CCATCAAGCC AGATGTCAGA AGCTACACCA TCACAGGTTT ACAACCAGGC 480 ACTGACTACA AGATCTACCT GTACACCTTG AATGACAATG CTCGGAGCTC CCCTGTGGTC 540 ATCGACGCCT CCACTGCCAT TGATGCACCA TCCAACCTGC GTTTCCTGGC CACCACACCC 600 AATTCCTTGC TGGTATCATG GCAGCCGCCA CGTGCCAGGA TTACCGGCTA CATCATCAAG 660 TATGAGAAGC CTGGGTCTCC TCCCAGAGAA GTGGTCCCTC GGCCCCGCCC TGGTGTCACA 720 780 GAGGCTACTA TTACTGGCCT GGAACCGGGA ACCGAATATA CAATTTATGT CATTGCCCTG AAGAATAATC AGAAGAGCGA GCCCCTGATT GGAAGGAAAA AGACTAGCGC TATTCCTGCA 840 CCAACTGACC TGAAGTTCAC TCAGGTCACA CCCACAAGCC TGAGCGCCCA GTGGACACCA 900 CCCAATGTTC AGCTCACTGG ATATCGAGTG CGGGTGACCC CCAAGGAGAA GACCGGACCA 960 ATGAAAGAAA TCAACCTTGC TCCTGACAGC TCATCCGTGG TTGTATCAGG ACTTATGGTG 1020 GCCACCAAAT ATGAAGTGAG TGTCTATGCT CTTAAGGACA CTTTGACAAG CAGACCAGCT 1080 CAGGGTGTTG TCACCACTCT GGAGAATGTC AGCCCACCAA GAAGGGCTCG TGTGACAGAT 1140

5

GCTACTGAGA	CCACCATCAC	CATTAGCTGG	AGAACCAAGA	CTGAGACGAT	CACTGGCTTC	1200
CAAGTTGATG	CCGTTCCAGC	CAATGGCCAG	ACTCCAATCC	AGAGAACCAT	CAAGCCAGAT	1260
GTCAGAAGCT	ACACCATCAC	AGGTTTACAA	CCAGGCACTG	ACTACAAGAT	CTACCTGTAC	1320
ACCTTGAATG	ACAATGCTCG	GAGCTCCCCT	GTGGTCATCG	ACGCCTCCAC	TGCCATTGAT	1380
GCACCATCCA	ACCTGCGTTT	CCTGGCCACC	ACACCCAATT	CCTTGCTGGT	ATCATGGCAG	1440
CCGCCACGTG	CCAGGATTAC	CGGCTACATC	ATCAAGTATG	AGAAGCCTGG	GTCTCCTCCC	1500
AGAGAAGTGG	TCCCTCGGCC	CCGCCCTGGT	GTCACAGAGG	СТАСТАТТАС	TGGCCTGGAA	1560
CCGGGAACCG	ААТАТАСААТ	TTATGTCATT	GCCCTGAAGA	ATAATCAGAA	GAGCGAGCCC	1620
CTGATTGGAA	GGAAAAAGAC	TAGCGACGAG	CTTCCCCAAC	TGGTAACCCT	TCCACACCCC	1680
AATCTTCATG	GACCAGAGAT	CTTGGATGTT	CCTTCCACT	A GT		1722

SEQ. ID No. 34

LENGTH: 412

TYPE: amino acid

STRANDEDNESS: single

15 TOPOLOGY: linear

MOLECULAR TYPE: peptide

SEQUENCE:

Met Ser Pro Ile Leu Gly Tyr Trp Lys Ile Lys Gly Leu Val Gln
5 10 15

Pro Thr Arg Leu Leu Glu Tyr Leu Glu Glu Lys Tyr Glu Glu
20 25 30

His Leu Tyr Glu Arg Asp Glu Gly Asp Lys Trp Arg Asn Lys Lys
35 40 45

Phe Glu Leu Gly Leu Glu Phe Pro Asn Leu Pro Tyr Tyr Ile Asp

	Ser	Arg	Val	Leu	Gln	Arg	Tyr	Leu	Leu	Glu	Ala	Lys	Glu	Ala	Glu
					245					250					255
	Asn	Ile	Thr	Thr	Gly	Cys	Ala	Glu	His	Cys	Ser	Leu	Asn	Glu	Asn
					260					265					270
5	Ile	Thr	Val	Pro	Asp	Thr	Lys	Val	Asn	Phe	Tyr	Ala	Trp	Lys	Arg
			٠		275					280					285
	Met	Glu	Val	Gly	Gln	Gln	Ala	Val	Glu	Val	Trp	Gln	Gly	Leu	Ala
: 47 CEL 2					290					295					300
eren der gestellt der	Leu	Leu	Sex	Glu	Ala	Val	Leu	Arg	Gly	Gln	Ala	Leu	Leu	Val	Asn
10					305					310					315
	Ser	Ser	Glm	Pro	Trp	Glu	Pro	Leu	Gln	Leu	His	Val	Asp	Lys	Ala
in the second se					320					325					330
	Val	Ser	Gly	Leu	Arg	Ser	Leu	Thr	Thr	Leu	Leu	Arg	Ala	Leu	Gly
					335					340					345
15	Ala	Gln	Lys	Glu	Ala	Ile	Ser	Pro	Pro	Asp	Ala	Ala	Ser	Ala	Ala
3 10 mm					350					355					360
	Pro	Leu	Arg	Thr	Ile	Thr	Ala	Asp	Thr	Phe	Arg	Lys	Leu	Phe	Arg
					365					370					375
	Val	Tyr	Ser	Asn	Phe	Leu	Arg	Gly	Lys	Leu	Lys	Leu	Tyr	Thr	Gly
20					380					385					390
	Glu	Ala	Cys	Arg	Thr	Gly	Asp	Arg	Leu	Ala	Met	Asp	Pro	Leu	Glu
					395					400					405
	Ser	Thr	Arg	Ala	Ala	Ala	Ser								
					410										

SEQ. ID No. 35

LENGTH: 24

TYPE: nucleic acid

STRANDEDNESS: single

5 TOPOLOGY: linear

MOLECULAR TYPE: other nucleic acid (synthetic DNA)

SEQUENCE:

GCTCCCTCTG GGCCTCCCAG TCCT 24

SEQ. ID No. 36

LENGTH: 24

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULAR TYPE: other nucleic acid (synthetic DNA)

SEQUENCE:

GTTGGTGAGG GAGGTGGTGG ATAT 24

SEO. ID No. 37

LENGTH: 33

TYPE: nucleic acid

20 STRANDEDNESS: single

TOPOLOGY: linear

MOLECULAR TYPE: other nucleic acid (synthetic DNA)

SEQUENCE:

	GGCCTCCCGA ATTCCGGTGC CCCACCACGC CTC	33
	SEQ. ID No. 38	
	LENGTH: 33	
	TYPE: nucleic acid	
5	STRANDEDNESS: single	
	TOPOLOGY: linear	
2 161. 2 161.	MOLECULAR TYPE: other nucleic acid (synthetic DNA)	
1	SEQUENCE:	
	CCCACGTGGA TCCATGGCTA ATCTGTCCCC TGT	33
0	SEQ. ID No. 39	
	LENGTH: 1239	
	TYPE: nucleic acid	
PE STORY	STRANDEDNESS: single	
5 # (2):	TOPOLOGY: linear	
15	MOLECULAR TYPE: other nucleic acid (DNA encoding	an artificial
	polypeptide)	
	SEQUENCE:	
	ATGTCCCCTA TACTAGGTTA TTGGAAAATT AAGGGCCTTG TGCAACCCAC T	CGACTTCTT 60
	TTGGAATATC TTGAAGAAAA ATATGAAGAG CATTTGTATG AGCGCGATGA A	GGTGATAAA 120
20	TGGCGAAACA AAAAGTTTGA ATTGGGTTTG GAGTTTCCCA ATCTTCCTTA T	TATATTGAT 180
	GGTGATGTTA AATTAACACA GTCTATGGCC ATCATACGTT ATATAGCTGA C.	AAGCACAAC 240

ATGTTGGGTG GTTGTCCAAA AGAGCGTGCA GAGATTTCAA TGCTTGAAGG AGCGGTTTTG

GATATTAGAT ACGGTGTTTC GAGAATTGCA TATAGTAAAG ACTTTGAAAC TCTCAAAGTT

300

GATTTTCTTA	GCAAGCTACC	TGAAATGCTG	AAAATGTTCG	AAGATCGTTT	ATGTCATAAA	420
ACATATTTAA	ATGGTGATCA	TGTAACCCAT	CCTGACTTCA	TGTTGTATGA	CGCTCTTGAT	480
GTTGTTTTAT	ACATGGACCC	AATGTGCCTG	GATGCGTTCC	CAAAATTAGT	TTGTTTTAAA	540
AAACGTATTG	AAGCTATCCC	ACAAATTGAT	AAGTACTTGA	AATCCAGCAA	GTATATAGCA	600
TGGCCTTTGC	AGGGCTGGCA	AGCCACGTTT	GGTGGTGGCG	ACCATCCTCC	AAAATCGGAT	660
CTGATCGAAG	GTCGTGGGAT	CCCCAGGAAT	TCCGGTGCCC	CACCACGCCT	CATCTGTGAC	720
AGCCGAGTCC	TGCAGAGGTA	CCTCTTGGAG	GCCAAGGAGG	CCGAGAATAT	CACGACGGC	780
TGTGCTGAAC	ACTGCAGCTT	GAATGAGAAT	ATCACTGTCC	CAGACACCAA	AGTTAATTTC	840
TATGCCTGGA	AGAGGATGGA	GGTCGGGCAG	CAGGCCGTAG	AAGTCTGGCA	GGGCCTGGCC	900
CTGCTGTCGG	AAGCTGTCCT	GCGGGGCCAG	GCCCTGTTGG	TCAACTCTTC	CCAGCCGTGG	960
GAGCCCCTGC	AGCTGCATGT	GGATAAAGCC	GTCAGTGGCC	TTCGCAGCCT	CACCACTCTG	1020
CTTCGGGCTC	TGGGAGCCCA	GAAGGAAGCC	ATCTCCCCTC	CAGATGCGGC	CTCAGCTGCT	1080
CCACTCCGAA	CAATCACTGC	TGACACTTTC	CGCAAACTCT	TCCGAGTCTA	CTCCAATTTC	1140
CTCCGGGGAA	AGCTGAAGCT	GTACACAGGG	GAGGCCTGCA	GGACAGGGGA	CAGATTAGCC	1200
ATGGATCCTC	ТАСАСТССАС	TCGAGCGGCC	GCATCGTGA			1239